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L7 and terephthalic acid.ti.	13

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 US Patents Full-Text Database
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 IBM Technical Disclosure Bulletins

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DATE: Thursday, November 10, 2005 [Printable Copy](#) [Create Case](#)

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DB=USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L8</u>	L7 and terephthalic acid.ti.	13	<u>L8</u>
<u>L7</u>	L6 and oxid\$6 and hydrogen	38	<u>L7</u>
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<u>L5</u>	L4 and 562/\$	46	<u>L5</u>
<u>L4</u>	L3 and (carboxybenzaldehyde or trimellitic acid or fluorenenone)	106	<u>L4</u>
<u>L3</u>	L2 and impur\$9	349	<u>L3</u>
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<u>L1</u>	terephthalic acid and slurry and b and color	2018	<u>L1</u>

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☐ 1. Document ID: US 6765113 B2

Using default format because multiple data bases are involved.

L7: Entry 1 of 38

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

DATE-ISSUED: July 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Graham; Derek Alexander	Cleveland			GB
Hamley; Paul Anthony	Nottingham			GB
Oliver; Raymond	Stockton on Tees			GB
Poliakoff; Martyn	Nottingham			GB
Woodcock; Duncan	Cheshire			GB
Ilkenhans; Thomas	Cambridge			GB

US-CL-CURRENT: 562/413; 562/407, 562/408, 562/409, 562/412, 562/414, 562/415,
562/421, 562/480, 562/485, 562/486, 562/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	562/413	562/407	562/408	562/409	562/412	562/414	562/415	562/421	562/480	562/485	562/486	562/487	Claims	KWIC	Draw D
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☐ 2. Document ID: US 6448436 B1

L7: Entry 2 of 38

File: USPT

Sep 10, 2002

US-PAT-NO: 6448436

DOCUMENT-IDENTIFIER: US 6448436 B1

TITLE: Integrated process for the production of 2, 6-naphthalene dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	6448436	6448436	6448436	6448436	6448436	6448436	6448436	6448436	6448436	6448436	6448436	6448436	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6392091 B1

L7: Entry 3 of 38

File: USPT

May 21, 2002

US-PAT-NO: 6392091

DOCUMENT-IDENTIFIER: US 6392091 B1

TITLE: Process of purifying and producing high purity aromatic polycarboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 4. Document ID: US 6307099 B1

L7: Entry 4 of 38

File: USPT

Oct 23, 2001

US-PAT-NO: 6307099

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 5. Document ID: US 6291707 B1

L7: Entry 5 of 38

File: USPT

Sep 18, 2001

US-PAT-NO: 6291707

DOCUMENT-IDENTIFIER: US 6291707 B1

TITLE: Process of purifying and producing high purity aromatic polycarboxylic acids and derivatives thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 6. Document ID: US 6255525 B1

L7: Entry 6 of 38

File: USPT

Jul 3, 2001

US-PAT-NO: 6255525

DOCUMENT-IDENTIFIER: US 6255525 B1

**** See image for Certificate of Correction ****

TITLE: Process for preparing purified carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 7. Document ID: US 6245939 B1

L7: Entry 7 of 38

File: USPT

Jun 12, 2001

US-PAT-NO: 6245939

DOCUMENT-IDENTIFIER: US 6245939 B1

TITLE: Process for producing highly pure aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 6194609 B1

L7: Entry 8 of 38

File: USPT

Feb 27, 2001

US-PAT-NO: 6194609

DOCUMENT-IDENTIFIER: US 6194609 B1

TITLE: Crystallization in a plate heat exchanger

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US 6150553 A

L7: Entry 9 of 38

File: USPT

Nov 21, 2000

US-PAT-NO: 6150553

DOCUMENT-IDENTIFIER: US 6150553 A

TITLE: Method for recovering methyl acetate and residual acetic acid in the production acid of pure terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 6143926 A

L7: Entry 10 of 38

File: USPT

Nov 7, 2000

US-PAT-NO: 6143926

DOCUMENT-IDENTIFIER: US 6143926 A

TITLE: Process for producing pure terephthalic acid with improved recovery of precursors, solvent and methyl acetate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 6133476 A**Using default format because multiple data bases are involved.**

L7: Entry 11 of 38

File: USPT

Oct 17, 2000

US-PAT-NO: 6133476

DOCUMENT-IDENTIFIER: US 6133476 A

TITLE: Process for purification of aromatic polycarboxylic acids

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lin; Tsong-Dar Vincent	Houston	TX	77056	

US-CL-CURRENT: 562/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KWIC	Draw. D.
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☐ 21. Document ID: US 5563294 A

Using default format because multiple data bases are involved.

L7: Entry 21 of 38

File: USPT

Oct 8, 1996

US-PAT-NO: 5563294

DOCUMENT-IDENTIFIER: US 5563294 A

**** See image for Certificate of Correction ****

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

DATE-ISSUED: October 8, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holzhauser; Juergen K.	Naperville	IL		
Albertins; Rusins	Naperville	IL		
Hoover; Stephen V.	Aurora	IL		
Sikkenga; David L.	Wheaton	IL		

US-CL-CURRENT: 562/483; 562/485, 562/486, 562/487, 562/488

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Page	Claims	KWIC	Draw. De
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☐ 22. Document ID: US 5453538 A

L7: Entry 22 of 38

File: USPT

Sep 26, 1995

US-PAT-NO: 5453538

DOCUMENT-IDENTIFIER: US 5453538 A

**** See image for Certificate of Correction ****

TITLE: Process for the manufacture of aromatic dicarboxylic acids utilizing cerium to facilitate a low bromine to metals catalyst ratio

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Page	Claims	KWIC	Draw. De
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☐ 23. Document ID: US 5414113 A

L7: Entry 23 of 38

File: USPT

May 9, 1995

US-PAT-NO: 5414113

DOCUMENT-IDENTIFIER: US 5414113 A

** See image for Certificate of Correction **

TITLE: Process for recovery of aromatic acid from waste polyester resin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 24. Document ID: US 5413681 A

L7: Entry 24 of 38

File: USPT

May 9, 1995

US-PAT-NO: 5413681

DOCUMENT-IDENTIFIER: US 5413681 A

TITLE: Process for the recovery of terephthalic acid and ethylene glycol from poly (ethylene terephthalate)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 25. Document ID: US 5354898 A

L7: Entry 25 of 38

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 26. Document ID: US 5304676 A

L7: Entry 26 of 38

File: USPT

Apr 19, 1994

US-PAT-NO: 5304676

DOCUMENT-IDENTIFIER: US 5304676 A

TITLE: Process for the production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 27. Document ID: US 5200557 A

L7: Entry 27 of 38

File: USPT

Apr 6, 1993

US-PAT-NO: 5200557

DOCUMENT-IDENTIFIER: US 5200557 A

TITLE: Process for preparation of crude terephthalic acid suitable for reduction to prepare purified terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 28. Document ID: US 5175355 A

L7: Entry 28 of 38

File: USPT

Dec 29, 1992

US-PAT-NO: 5175355

DOCUMENT-IDENTIFIER: US 5175355 A

**** See image for Certificate of Correction ****

TITLE: Improved process for recovery of purified terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 29. Document ID: US 5112992 A

L7: Entry 29 of 38

File: USPT

May 12, 1992

US-PAT-NO: 5112992

DOCUMENT-IDENTIFIER: US 5112992 A

TITLE: Production of polycarboxylic acids with hafnium-activated cobalt catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 30. Document ID: US 5110984 A

L7: Entry 30 of 38

File: USPT

May 5, 1992

US-PAT-NO: 5110984

DOCUMENT-IDENTIFIER: US 5110984 A

**** See image for Certificate of Correction ****

TITLE: Process for increasing the yield of purified isophthalic acid and reducing waste-water treatment a

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 31. Document ID: US 5095135 A

Using default format because multiple data bases are involved.

L7: Entry 31 of 38

File: USPT

Mar 10, 1992

US-PAT-NO: 5095135

DOCUMENT-IDENTIFIER: US 5095135 A

TITLE: Process for the preparation of high-purity naphthalenecarboxylic acid esters

DATE-ISSUED: March 10, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Teruaki	Ibaraki			JP
Maeda; Kazuhiko	Ibaraki			JP
Minami; Ryohei	Ibaraki			JP
Nagao; Yukio	Ibaraki			JP
Sugiura; Kazuki	Ibaraki			JP

US-CL-CURRENT: 560/100; 560/77, 560/78, 562/414, 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Patent Images	Claims	KMC	Drawings
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☐ 32. Document ID: US 4948921 A

L7: Entry 32 of 38

File: USPT

Aug 14, 1990

US-PAT-NO: 4948921

DOCUMENT-IDENTIFIER: US 4948921 A

** See image for Certificate of Correction **

TITLE: Process for the production and recovery of trimellitic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Patent Images	Claims	KMC	Drawings
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☐ 33. Document ID: US 4755622 A

L7: Entry 33 of 38

File: USPT

Jul 5, 1988

US-PAT-NO: 4755622

DOCUMENT-IDENTIFIER: US 4755622 A

**** See image for Certificate of Correction ****TITLE: Process for the production of trimellitic acid and pyromellitic acid by staged bromine addition in an oxidation of polyalkylaromatics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 34. Document ID: US 4675438 A

L7: Entry 34 of 38

File: USPT

Jun 23, 1987

US-PAT-NO: 4675438

DOCUMENT-IDENTIFIER: US 4675438 A

**** See image for Certificate of Correction ****TITLE: Direct continuous flow integration of production and purification of high purity iso- or terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 35. Document ID: US 4405809 A

L7: Entry 35 of 38

File: USPT

Sep 20, 1983

US-PAT-NO: 4405809

DOCUMENT-IDENTIFIER: US 4405809 A

**** See image for Certificate of Correction ****

TITLE: Process for the manufacture of aromatic polycarboxylic acids having delta Y values below ten

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 36. Document ID: US 4259522 A

L7: Entry 36 of 38

File: USPT

Mar 31, 1981

US-PAT-NO: 4259522

DOCUMENT-IDENTIFIER: US 4259522 A

TITLE: Process for the production of isophthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 37. Document ID: US 4201871 A

L7: Entry 37 of 38

File: USPT

May 6, 1980

US-PAT-NO: 4201871

DOCUMENT-IDENTIFIER: US 4201871 A

TITLE: Process for recovering terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KMC	Draw D
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☐ 38. Document ID: US 4158738 A

L7: Entry 38 of 38

File: USPT

Jun 19, 1979

US-PAT-NO: 4158738

DOCUMENT-IDENTIFIER: US 4158738 A

**** See image for Certificate of Correction ****TITLE: Process for the production of fiber-grade terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KMC	Draw D
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